(19) World Intellectual Property Organization

International Bureau



. | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1887 | 1

(43) International Publication Date 6 May 2004 (06.05.2004)

PCT

(10) International Publication Number WO 2004/038681 A3

(51) International Patent Classification⁷:

G06G 7/78

(21) International Application Number:

PCT/US2003/033242

- (22) International Filing Date: 20 October 2003 (20.10.2003)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/419,934

21 October 2002 (21.10.2002) US

- (71) Applicant (for all designated States except US): JOHN-SON CONTROLS TECHNOLOGY COMPANY [US/US]; 650 Waverly, Holland, MI 49423 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): ARNOLD-HUYSER, Nisa, M. [US/US]; 1520 Castlemaine Drive, Zeeland, MI 49464 (US). HUGHES, Alan, S. [US/US]; 1210 Birdie Lane, Holland, MI 49423 (US). BAMBINI, John, S. [US/US]; 5490 Brattleboro Drive, S.E., Kentwood, MI 49508 (US). MILSTEAD, Ian [US/US]; 665 Berkley Avenue, Elmhurst, IL 60126-4201 (US). SONDAY, Susan, K. [US/US]; 2015 Woodlark Drive, Holland, MI 49424 (US).

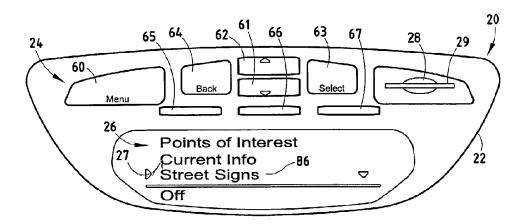
- (74) Agent: REICK, Harold, W.; Price, Heneveld, Cooper, DeWitt & Litton, 695 Kenmoor, S.E., P.O. Box 2567, Grand Rapids, MI 49501-2567 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 19 August 2004

[Continued on next page]

(54) Title: POINT-OF-INTEREST DISPLAY SYSTEM



(57) Abstract: A point-of-interest display system (20) includes an updateable database which interfaces with a microprocessor (50) which receives data from a GPS receiver (40) providing the system with current vehicle location and direction of travel information. A display (26) provides the operator graphic display data information and easily accessible control switches (24) allow the operator to select upcoming highway exits, categories of points of interests, and points of interest.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/33242

A. CLASSIFICATION OF SUBJECT MATTER			
IPC(7) : G06G 7/78			
US CL: 701/208			
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 701/208, 206, 207, 209, 210, 211; 340/995.1,995.11,995.16,995.14,995.17,995.24,995.27,995.28,995.2			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPO, JPO, Derwent			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.
X	US 6, 434,482 B1 (Oshida et al) 13 August 2002 ((13.08.2002)	1-6,8,11,12
Y		-	7,9,10,13-15
Y	US 6,014,090 A (ROSEN et al) 11 January 2000 (11.01.2000)		9,10
Y	US 6,351,698 B1 (KUBOTA et al) 26 February 2002 (26.02.2002)		13-15
Y	US 5,767,795 A (SCHAPHORST) 16 June 1998 (16.06.1998)		1-15
Α	US 2002/0049535 A1 (Rigo et al) 25 April 2002 (25.04.2002)		1-15
A	A US 2002/0152021 A1 (Ota et al.) 17 October, 2002 (17.10.2002)		1-15
Further documents are listed in the continuation of Box C. See patent family annex.			
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
"E" earlier application or patent published on or after the international filing date		"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step	
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is	
"O" document	referring to an oral disclosure, use, exhibition or other means	combined with one or more other such being obvious to a person skilled in the	documents, such combination
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent fa	amily
Date of the actual completion of the international search		Date of mailing of the international search report	
21 March 2004 (21.03.2004)			JUL 2004
Name and mailing address of the ISA/US		Authorized officer	
Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Thomas Black V Hoding	
P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Telephone No. 703-308-1113	
orm PCT/ISA/210 (second sheet) / Inly 1000)			

Form PCT/ISA/210 (second sheet) (July 1998)